MTC SD Series SMD Drum Type Choke

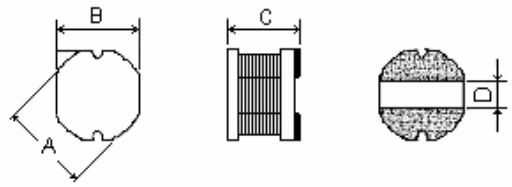
Application Field

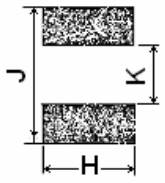
- VTR.OA equipment. LCD television set
- Note book
- Portable communication equipment
- DC / DC converters

Features

- Open Magnetic circuit construction
- Compact and thin,
- Put the electrode with ferrite core directly a small surface area allow a high mounting density

Dimensions and footprint (unit:mm)



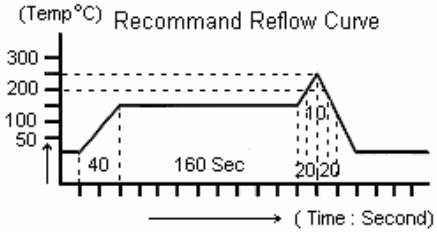


PCB Pattern

TYPE	A	B	C	D(typ)	H(typ)	J(typ)	K(typ)
SD3512	3.5±0.3	3.0±0.3	1.4Max	1.2	3.5	4.0	0.8
SD3516	3.5±0.3	3.0±0.3	1.6±0.3	1.2	3.5	4.0	0.8
SD3521	3.5±0.3	3.0±0.3	2.0±0.3	1.2	3.5	4.0	0.8
SD0402	4.5±0.3	4.0±0.3	2.6±0.3	1.2	4.5	5.0	1.5
SD0403	4.5±0.3	4.0±0.3	3.2±0.3	1.2	4.5	5.0	1.5
SD05018	5.8±0.3	5.2±0.3	2.2±0.3	1.3	5.5	6.0	1.7
SD0502	5.8±0.3	5.2±0.3	2.5±0.3	2.0	5.5	6.0	1.7
SD0503	5.8±0.3	5.2±0.3	3.0±0.3	1.3	5.5	6.0	1.7
SD0504	5.8±0.3	5.2±0.3	4.5±0.4	1.3	5.5	6.0	1.7
SD07025	7.8±0.3	7.0±0.3	2.5 max	2.1	7.5	8.0	2.0
SD0703	7.8±0.3	7.0±0.3	3.5±0.5	2.1	7.5	8.0	2.0
SD0705	7.8±0.3	7.0±0.3	5.0±0.5	2.6	7.5	8.0	2.0
SD1004	10.0±0.4	9.0±0.3	4.0±0.3	2.1	9.5	10	2.0
SD1005	10.0±0.4	9.0±0.3	5.4±0.4	2.1	9.5	10	2.0
SD1006	10.0±0.4	9.0±0.3	7.5Max	2.1	9.5	10	2.0
SD1008	10.0±0.4	9.0±0.3	8.5Max	3.0	9.5	10	2.0

General Specification:

1. Storage temp: -40°C ~ +125°C
2. Operating temp: -25°C ~ +105°C
3. Resistance to solder heat : 250°C 10secs



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MTC SMD Drum Choke

SD05018,SD0502, SD0503, SD0504-Series

		05018		0502		0503		0504	
Part No.	L(μH)	RDC(Ω)max	IDC(A)Min	RDC(Ω)max	IDC(A)Min	RDC(Ω)max	IDC(A)min	RDC(Ω)max	IDC(A)min
R47	0.47							0.060	5.05
R82	0.82			0.012	5.50				
1R0	1.0	0.030	2.99	0.021	4.00	0.020	4.00	0.010	5.00
1R2	1.2			0.040	4.20	0.022	3.95	0.012	4.77
1R5	1.5	0.041	2.49	0.030	3.75	0.024	3.90	0.013	4.50
1R6	1.6							0.015	4.30
1R8	1.8					0.026	3.85	0.016	4.25
2R0	2.0	0.053	2.12						
2R2	2.2			0.032	3.00	0.028	3.80	0.017	4.20
2R6	2.6							0.022	4.20
2R7	2.7	0.068	1.87	0.036	3.00	0.030	3.70	0.025	4.00
3R3	3.3	0.085	1.64	0.050	2.00	0.040	3.40	0.034	2.50
3R9	3.9			0.052	1.97	0.040	3.20	0.035	2.20
4R1	4.1					0.045	3.15		
4R7	4.7	0.130	1.55	0.057	1.80	0.050	3.10	0.035	2.00
4R8	4.8							0.038	1.98
5R0	5.0							0.040	1.87
5R3	5.3					0.065	2.90		
5R6	5.6	0.148	1.35	0.085	1.46	0.07	2.80	0.038	1.82
6R8	6.8	0.166	1.33	0.112	1.35	0.08	2.50	0.042	1.69
7R5	7.5							0.06	1.65
8R0	8.0	0.179	1.15						
8R2	8.2	0.187	1.05	0.125	1.25	0.09	2.20	0.06	1.56
100	10	0.223	0.99	0.14	1.15	0.11	1.90	0.10	1.44
120	12	0.243	0.94	0.20	1.12	0.13	1.60	0.12	1.40
150	15	0.335	0.90	0.23	1.04	0.15	1.30	0.14	1.30
180	18	0.373	0.78	0.25	0.98	0.18	1.00	0.15	1.23
220	22	0.499	0.62	0.30	0.89	0.22	0.93	0.18	1.11
270	27	0.564	0.56	0.40	0.78	0.27	0.86	0.20	0.97
330	33	0.659	0.53	0.48	0.70	0.31	0.79	0.23	0.88
390	39	0.777	0.48	0.52	0.68	0.33	0.78	0.32	0.80
470	47	0.920	0.44	0.56	0.58	0.45	0.72	0.37	0.72
560	56	1.135	0.37	0.76	0.54	0.58	0.65	0.42	0.68
650	65							0.44	0.63
680	68	1.264	0.27	0.93	0.49	0.67	0.58	0.46	0.61
700	70								
800	80								
820	82	1.469	0.20	1.20	0.46	0.89	0.51	0.60	0.58
101	100	1.697	0.19	1.34	0.42	1.22	0.44	0.70	0.52
121	120	2.500	0.180	1.970	0.410	1.30	0.40	0.93	0.48
151	150	3.230	0.17	1.90	0.32	1.41	0.37	1.10	0.40
181	180	3.620	0.15	2.09	0.31	1.850	0.350	1.38	0.38
201	200			2.61	0.30			1.43	0.36
221	220	4.706	0.10	3.26	0.28	1.90	0.33	1.57	0.35
271	270			3.940	0.27			1.60	0.34
331	330	7.306	0.10	4.20	0.260	3.40	0.30	1.82	0.32
471	470	9.282	0.10	6.70	0.15	4.40	0.27	2.76	0.30
561	560							3.10	0.29
681	680	14.040	0.09					4.05	0.28
821	820	16.700	0.08					5.56	0.27
102	1000	21.860	0.07	15.0	0.140	10.75	0.19	5.74	0.26
222	2200							15.87	0.14
302	3000							18.00	0.08
562	5600								
103	10000			102.0	0.052				
113	11000								
123	12000							106	0.04
183	18000					210.59	0.042		
683	68000							455.6	0.018

SDxxxxx-xxxK-E, Code "-E" : RoHs compliant

Inductance tolerance : N±30% M±20% L±15% K±10% J±5% IDC : △ L / L (0A)≦10%

Inductctance sested : 1.0μH - 8.2μH / 100KHZ / 0.25V 10μH -12000μH / 1KHZ / 0.25V

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